

We claim:

1. A tool for installing a wheel stud in a vehicle wheel without requiring the removal of the wheel from the vehicle axle comprising:

- a) a clamping bracket having an inner side, an outer side and a bridge section that connects said inner and outer sides, said inner side to be positioned between a vehicle axle and a vehicle wheel such that the inner side of the clamping bracket is in contact with a wheel stud that is positioned in and extending through a hole in the vehicle wheel for installation in the vehicle wheel, said clamping bracket also having an opening through said outer side of the bracket;
- b) a threaded pressure rod, which passes through the opening in said outer side of said clamping bracket, said pressure rod having an inner end and an outer end, said pressure rod capable of being rotated in order to move the pressure rod in the direction of the vehicle wheel and thereby decreasing end of the pressure rod and the vehicle wheel; and
- c) a spacer being hollow with an inner end and an outer end, said inner end being open to receive the wheel stud in the hollow spacer, said inner end being in contact with the vehicle wheel at the location of the positioned wheel stud and said outer end being solid and in contact with said pressure rod, such that when said pressure rod is rotated pressure is created on the inner side of the clamping bracket such that the wheel stud is forced into the vehicle wheel by said inner side of said clamping bracket.

20. The stud installation tool as described in claim 1 wherein said inner end of pressure rod comprises a flat head for contacting said solid end of said spacer and wherein said outer end of said pressure rod comprises a multi-sided head capable of being engaged for the purpose of rotating said pressure rod.

21. The stud installation tool as described in claim 20 further comprising a cap that fits over said multi-sided end and a cap that fits over said inner head.

22. The stud installation tool as described in claim 21 wherein both said caps have threads that enable each of said caps to be secured to the appropriate end of said pressure rod.

29. The stud installation tool as described in claim 1 further comprising a plate attached to the inner side of said clamping bracket such that said plate contacts the head end of a wheel stud during stud installation.